

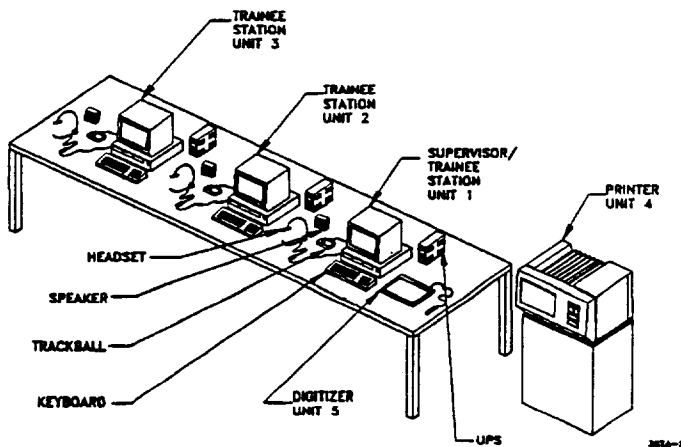
SUMMARY OF
AIR TRAFFIC CONTROL PROFICIENCY TRAINER

April 1992

Device 15G33

NAVAL TRAINING SYSTEMS CENTER

ORLANDO, FLORIDA



TRAINING CATEGORY:

Air Traffic Control (ATC)

ORIGINATING AGENCY:

CNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 15G33 is unclassified.

PURPOSE OF DEVICE:

Device 15G33, APTS provides simulation capability for both individual and group practice of ATC manual, visual, communications and voice control skills and air traffic control rules and regulations. The APTS is designed to develop ATC proficiency for the following missions:

- Radar Air Traffic Control Facility (RATCF)
- Tower

INTENDED USE:

To train student Air Traffic Controllers using simulated radar displays, targets, and airfields for various training scenarios. Voice training is provided to develop proficiency with proper ATC terminology and phraseology, and implementation of ATC rules/ regulations.

FUNCTIONAL DESCRIPTION:

Device 15G33 is a 3-station trainer. Each station can perform the function of the other stations. The station designated as the Supervisor Station is functionally identical to the Trainee Stations. The Supervisor station computer however, contains floppy disk and streaming tape drives not present in the Trainee Stations. These drives are not used during a training scenario, but are used for file transfer and system backup. A printer is supplied primarily for the Supervisor to print scenario descriptions or other files. The Device also includes a

FUNCTIONAL DESCRIPTION: (Continued)

digitizer, used to recreate local area maps for selected training scenarios. Each station has a VMEbus-based, dedicated Motorola Model 3208 Computer, containing a CPU card, hard disk drive, voice recognition card, graphic display controller, graphics transition card, audio transition card, communications card and a thinnet adapter. The VMEbus is the data transfer path to and from computer circuit cards, under CPU control. An SCSI high-speed parallel data transfer bus is connected to the CPU card. A power strip provided with each Device provides interconnection of the units with facility power, as well as power line surge suppression.

PHYSICAL INFORMATION:

Device 15G33 consists of the following units and major assemblies (used in all 3 stations):

Supervisor Station, Unit 1
 Computer Assembly, 1A1
 Color Monitor Assembly, 1A2 (Refer to Note 1)
 Keyboard Assembly, 1A3
 Trackball Assembly, 1A4
 Uninterruptable Power Supply, 1A5
Headset, 1HT-1
Loudspeaker, 1LS-1
Trainee Station, Unit 2
Trainee Station, Unit 3
Printer, Unit 4 (Refer to Note 2)
Digitizer, Unit 5 (Refer to Note 3)
Power Strip, J1
Interconnect Cables & Power Cords (Min. space required 3-station Device - 55 sq. ft.)

NOTES:

- 1) 15 or 19 in. (Refer to Note 3) model
- 2) Floor (Refer to Note 3) or Table-Top Model
- 3) 1st Article Config. Only

OPERATIONAL EQUIPMENT:

Actual or modified operational equipment is not used. Commercially available equipment is interfaced to form the APTS trainer.

EQUIPMENT REQUIRED (NOT SUPPLIED):

Refer to Device 15G33 Systems Interface Manual (SIM), NTSC P-6737, Table 1-6.

POWER REQUIREMENTS:

Line Volt.-120VAC, one phase, 60 Hz
Current - (Min) (ea. sta.) 2.8 Amps
Power - (ea. sta.) - 234 VA, 336 WA
(Dedicated grounded outlet required for each station.)

INSTALLATION REQUIREMENTS:

Device 15G33 is a portable, table-top training device.

PUBLICATIONS FURNISHED:

NTSC P-6737, Systems Interface Manual (SIM) with Commercial-Off-The-Shelf (COTS) Manuals (U)
NTSC P-6738, Instructor's Utilization Handbook (IUH) (U)
NTSC P-6739-1, -2, On-The-Job Training (OJT) Handbook (U)
NTSC P-6739-3, Trainee Guide (U) (OJT) Handbook (U)

PERSONNEL:

Three Operators, (one Supervisor/Instructor, two Trainees)

CONTRACT IDENTIFICATION:

Manufactured by: Contraves USA.SSI
5902 Breckenridge Parkway
Tampa, Florida 33610-4233

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